



## Safety Recall

**Subject:** PROPELLER SHAFT BOLT TORQUE

**Date:** 10/22/2010

**Bulletin #:** R0036

**Campaign #:** M0150

**Affected Models:** Certain 2009 and 2010 NV8J (338) Hino Conventional Trucks

**Important:** Verify on the Hino DCS Warranty System that the vehicle still needs to have this work performed.

### Description:

This bulletin includes the instructions for replacing the propeller shaft straps, strap bolts, and applying the correct torque to the replacement propeller shaft strap bolts.

### Condition:

The u-joint attachment bolts may not have been properly tightened during the manufacturing process. If the bolts were to loosen it could cause a vibration in the driveline. If this vibration were ignored, the U-joint attachment bolts could shear and a portion of the propeller shaft could separate from the vehicle, thus falling onto the surface of the roadway. If this fallen portion of the propeller shaft is struck by a vehicle, it could ultimately result in an accident.

### Subject Vehicles:

Certain 2009 and 2010 model year NV8J (338) Hino conventional trucks assembled at the Williamstown, WV assembly plant built between August 18, 2008 and July 27, 2009.

### Before You Begin:

Read and understand all instructions and procedures before you begin. Read and observe all caution and warning safety alerts that precede these instructions while following these procedures. The alerts help to avoid serious personal injury, damage to components, or both.

## !!! WARNING !!!

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all WARNINGS set forth below. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a flat and level surface.
- Shift transmission to **NEUTRAL**.
- Apply the parking brake. Confirm parking brake activation.
- Confirm the engine is stopped, the starter switch is in the off (**LOCK**) position, and the key is removed.
- Place wheel chocks in front of and behind all wheels.
- Use care when working around surfaces which may be hot.
- Wear safety glasses to prevent eye injuries.

### Once Recall Is Completed

Complete a recall sticker and affix to the left door jam above the V.I.N. decal.



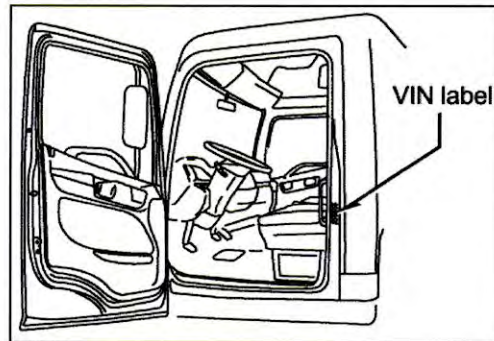
**HINO**   
A Toyota Group Company

Campaign No.: \_\_\_\_\_

Dealer code: \_\_\_\_\_

Repair date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
(MM / DD / YY)

**DO NOT REMOVE**



### Required Parts:

| Part Number | Description | Qty.      |
|-------------|-------------|-----------|
| 140-70-18X  | STRAP KIT   | SEE CHART |

### Claim Application:

CAMPAIGN NUMBER: M0150  
TIME ALLOWANCE: 1.0 Hours  
WARRANTY CODE: 2816937  
OPERATION CODE: 28150AOT  
ORIGINAL PART NUMBER: 9999999999

NOTE: The 8<sup>th</sup> digit of the V.I.N. indicates the wheel base of the vehicle.

Refer to the chart below for the number of strap kits that must be replaced on the vehicle.

| Wheel Base       | G | J | L | M | P | R | T | V |
|------------------|---|---|---|---|---|---|---|---|
| Propeller Shafts | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 |
| Strap Kits       | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 |

**WARNING:** It may be necessary to rotate the drive shaft to adequately access all of the propeller shaft strap bolts. Failure to do this may damage the new strap bolts if the socket is not properly seated on the bolt prior to applying torque.



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**Procedure:**

1. Park the vehicle on a level surface.
2. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brakes.



4. Chock all wheels.



## Safety Recall

5. Remove two strap bolts and strap from one side of the u-joint.

Discard the strap and bolts.

6. Install, **hand tight**, a new strap and two new bolts.

**NOTE:** Ensure the u-joint cap is properly seated in the saddle.

7. Torque both bolts to 125 ft. lbs. (169 Nm.)

8. Apply paint to each bolt after performing torque procedure.





## Safety Recall

**9.** Remove two strap bolts and u-joint strap from the other side of the u-joint.

Discard the strap and bolts.

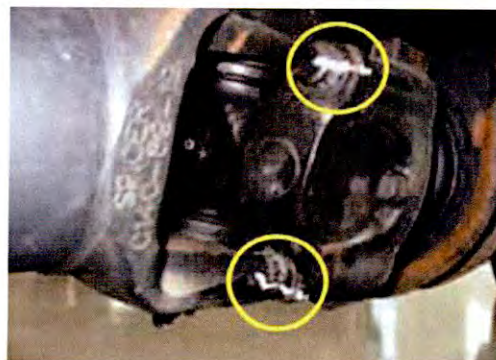
**10.** Install, hand tight, one new strap and two new bolts.

**NOTE:** Ensure the u-joint cap is properly seated in the saddle.

**11.** Torque both strap bolts to 125 ft. lbs. (169 Nm.)

**12.** Apply paint to each bolt after performing torque procedure.

Repeat the procedure for all remaining u-joint locations on the vehicle.





## Safety Recall

**Subject:** ALLISON 3000 SERIES SPACER COUPLING BOLTS

**Date:** 10/22/2010

**Bulletin #:** R0035

**Campaign #:** M0160

**Affected Models:** Certain 2008, 2009, and 2010 NV8J (338) Hino Conventional Trucks with Allison 3000 Series Transmissions

**Important:** Verify on the Hino DCS Warranty System that the vehicle still needs to have this work performed.

### **Description:**

This bulletin includes the instructions for replacing the Allison 3000 transmission spacer coupling bolts.

### **Condition:**

The drive coupling bolts may have not been properly tightened during the manufacturing process. If the bolts were to loosen it could cause a vibration in the driveline. If this vibration were ignored, the drive coupler bolts could shear and the drive coupling between the engine and torque convertor would not transmit power. This ultimately could result in an accident.

### **Subject Vehicles:**

Certain 2008, 2009, and 2010 NV8J (338) Hino conventional trucks assembled at the Williamstown, WV assembly plant built between October 29, 2007 and July 15, 2009.

### **Before You Begin:**

Read and understand all instructions and procedures before you begin. Read and observe all Caution and Warning safety alerts that precede these instructions while following these procedures. The alerts help to avoid serious personal injury, damage to components, or both.

Vendor Ref: QA100323-M1



## Safety Recall

### !!! WARNING !!!

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all WARNINGS set forth below. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a flat and level surface.
- Shift transmission to NEUTRAL.
- Apply the parking brake. Confirm parking brake activation.
- Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.
- Place wheel chocks in front of and behind all wheels.
- Use care when working around surfaces which may be hot.
- Wear safety glasses to prevent eye injuries.
- When opening and closing the hood, make sure no one is around the hood to prevent opening / closing the hood onto anyone.
- Use a suitable container when collecting draining fluids.
- Dispose of fluids in a manner that is pursuant to local regulations.
- Clean up spilled fluid immediately.

### Once Recall Is Completed

Complete a recall sticker and affix to the left door jam above the V.I.N. decal.



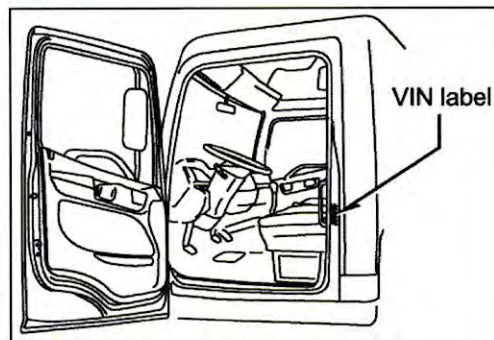
**HINO**   
A Toyota Group Company

Campaign No.: \_\_\_\_\_

Dealer code: \_\_\_\_\_

Repair date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
(MM / DD / YY)

**DO NOT REMOVE**



### Required Parts:

| Part Number | Description | Qty. |
|-------------|-------------|------|
| SZ10110130  | BOLT        | 6    |
| S478371230  | BAND, CLAMP | 2    |
| 140-70-18X  | STRAP KIT   | 1    |
| 21598E0010  | RETAINER    | 2    |

### Claim Application:

CAMPAIGN NUMBER: M0160  
 TIME ALLOWANCE: 3.5 Hours  
 WARRANTY CODE: 2612937  
 OPERATION CODE: 26550AOT  
 ORIGINAL PART NUMBER: 9999999992

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**Procedure:**

1. Park the vehicle on a level surface.
2. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brakes.

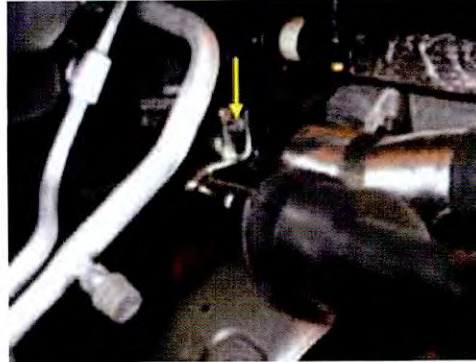


4. Chock all wheels.





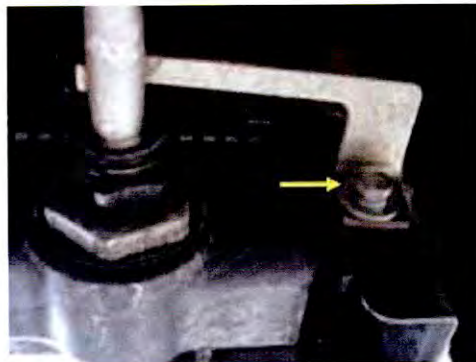
5. Remove the automatic transmission dipstick mounting bracket bolt.



6. Remove both transmission cooler line covers on the radiator by cutting the clamp bands and removing the rubber dust covers.



7. Remove the retaining bolts at each cooler line.



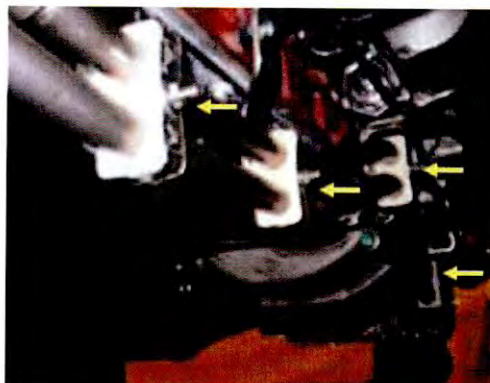
8. Place a drain pan under the lines and remove the retainers. Discard the retainers. Remove the lines from the radiator.



**NOTE:**

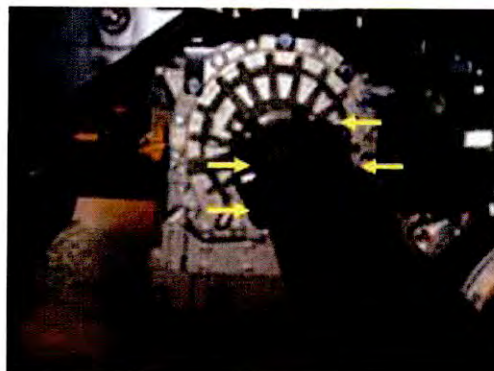
Cap the lines to minimize fluid loss.

9. Remove the four transmission cooler line clamp nuts and clamps.



10. Remove the front propeller shaft and U-joint from the transmission yoke by removing the four bolts and two straps.

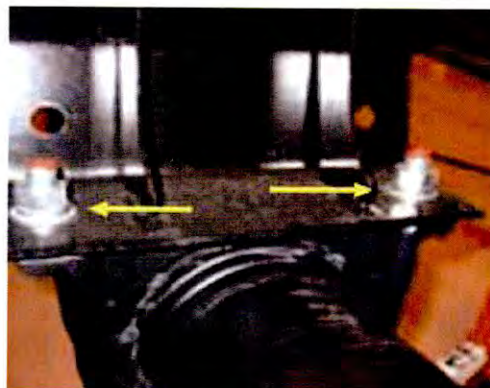
Discard the straps and bolts.



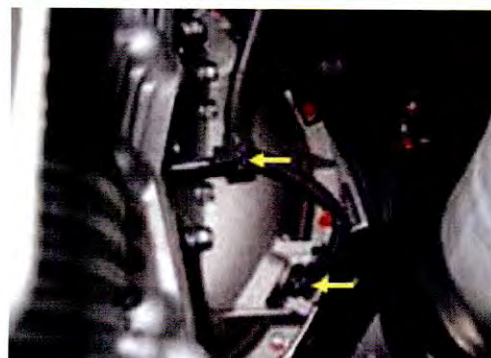
11. Remove the two nuts and bolts from the #1 carrier bearing.

**NOTE:**

Position the driveshaft towards the right side frame rail supported by a jack stand.

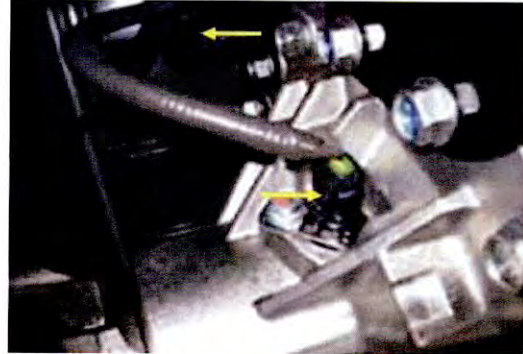


12. Remove the turbine shaft speed sensor harness connector and remove the two harness clips from the brackets.

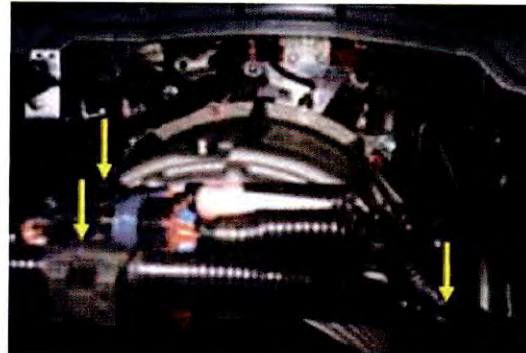




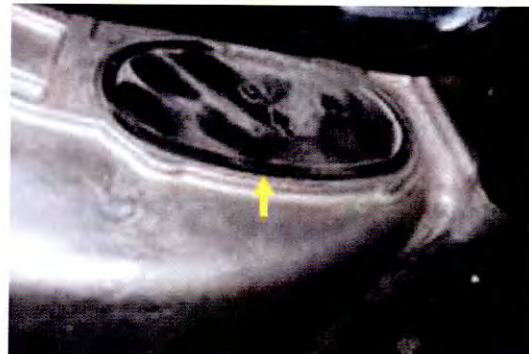
**13.** Remove the speed sensor harness connector and the harness clip from the rear of the transmission.



**14.** Remove the feed-through wiring harness connector and hold down nut from the top of the transmission. Remove the wiring harness from the transmission.



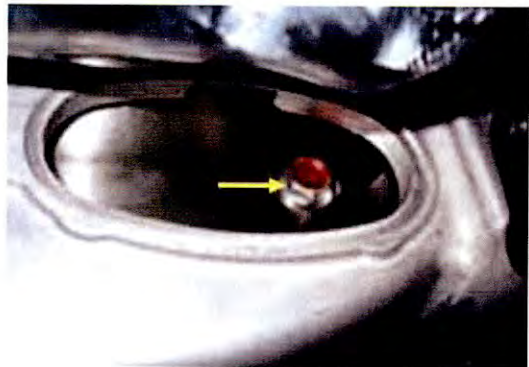
**15.** Remove the inspection cover from the flywheel housing.



**16.** Remove the six flywheel coupling bolts through the inspection cover.

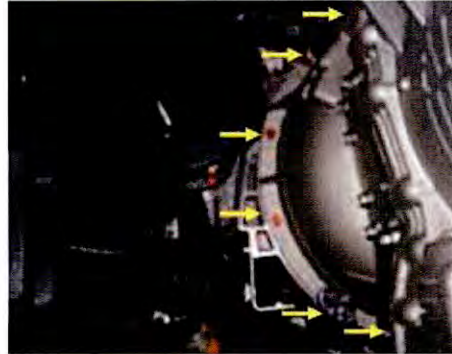
**NOTE:**

Turn the flywheel manually to remove each bolt through the inspection hole.



## Safety Recall

17. Position a transmission jack under the transmission and secure the transmission to the jack. Remove the 12 mounting bolts from the torque converter housing.



18. Ensure that the transmission cooler lines are clear from the brackets and slowly separate the transmission from the flywheel housing. Slide the transmission back far enough to allow access (6 to 8 inches) to the spacer coupling bolts.



**WARNING:**

Make sure that the transmission is secured to the jack and is balanced correctly to eliminate slippage.

19. Remove and replace, **one at a time**, the six spacer coupling bolts.

Torque the new bolts to 50 lb ft (68 Nm).



**WARNING:**

If all bolts are removed at once the spacer coupling could fall off.



## Safety Recall

**20.** Install the spacer coupling guide (SST 09657-1370) into the spacer coupling and rotate the torque converter so that the guide faces down.



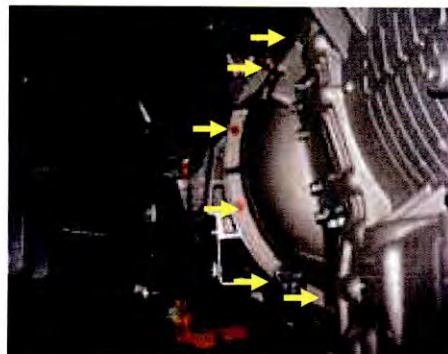
**21.** Slowly align the torque converter housing to the flywheel housing, and ensure that the spacer coupling guide lines up with the flywheel bolt hole seen through the inspection hole.



**WARNING:**

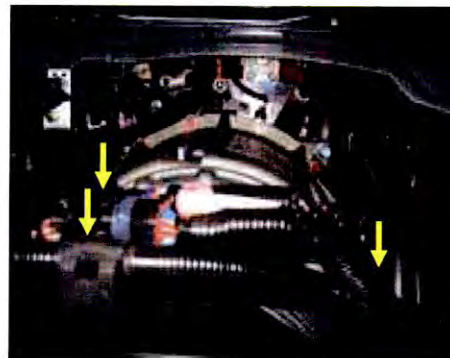
Make sure that the transmission is secured to the jack and is balanced correctly to eliminate slippage.

**22.** Reinstall, *hand tight*, the 12 torque converter housing bolts. Once all 12 bolts are installed, torque all 12 bolts to 35 lb ft (47 Nm) and remove the transmission jack.



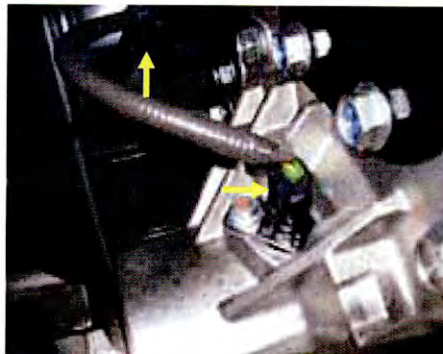
**23.** Reconnect the transmission feed-through wiring harness, harness hold down nut, and wiring harness retainers.

Torque the harness retainer nut to 16 lb ft (22 Nm).

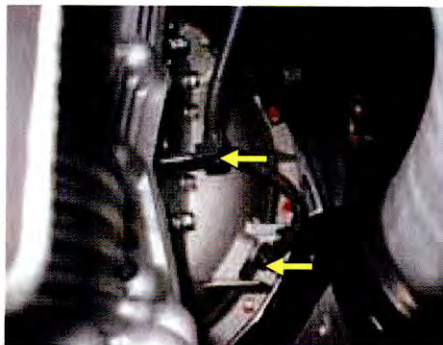


## Safety Recall

**24.** Reconnect the speed sensor harness connector and harness retainer clip onto the rear of the transmission.

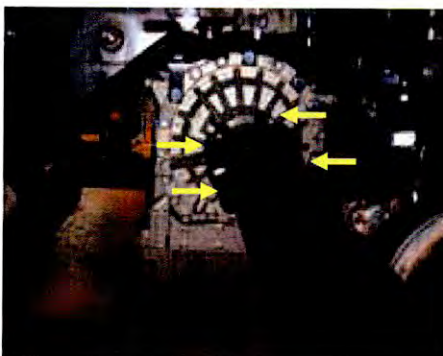


**25.** Reconnect the turbine shaft speed sensor harness connector, then reinstall the harness clips on the front end of the transmission.



**26.** Reinstall the propeller shaft onto the transmission yoke using the two new straps and four new bolts.

Torque the propeller shaft bolts to 125 lb ft (169 Nm).



**27.** Reinstall the #1 carrier bearing using the previously removed nuts and bolts.

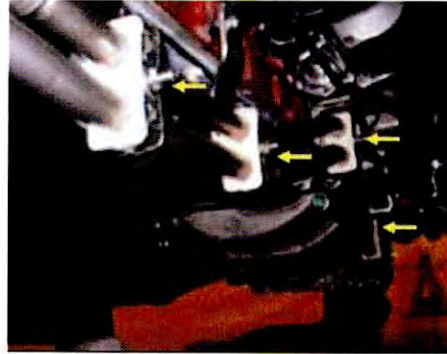
Torque the bolts to 105 lb ft (142 Nm).





**28.** Reinstall the four transmission cooler line clamps and nuts previously removed.

Torque the clamp nuts to 16 lb ft (22 Nm).



**29.** Reinstall the transmission cooler lines into the radiator. Install new retainers.



**30.** Reinstall the retaining bolt for each cooler line.

Torque the retaining bolts to 16 lb ft (22 Nm).



**31.** Replace the transmission cooler line covers and secure with new clamp bands.



## Safety Recall

**32.** Remove the spacer coupling guide from the spacer coupling through the flywheel inspection cover. Reinstall, *hand tight*, one coupling bolt and manually rotate the engine to reinstall all six bolts through the inspection cover.

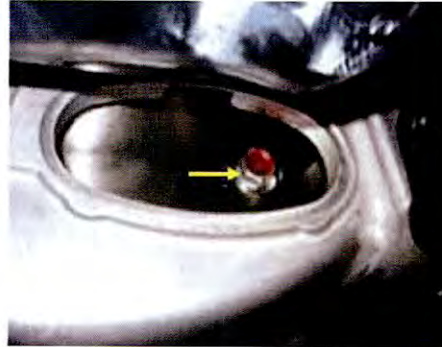
Torque all six flywheel coupling bolts to 55 lb ft (75 Nm).

**33.** Reinstall the flywheel housing inspection cover.

**34.** Reinstall the dipstick mount and bolt to the bracket.

Torque the bolt to 16 lb ft (22 Nm).

**35.** Start the vehicle and check the fluid level. Top off as necessary and check for any leaks.







## Safety Recall

**Subject:** CENTER EXHAUST HANGER CLAMP AND TORQUE

**Date:** 10/22/2010

**Bulletin #:** R0037

**Campaign #:** M0170

**Affected Models:** All Hino Conventional Trucks assembled at the Williamstown, WV assembly plant between April 6, 2009 and June 30, 2009.

**Important:** Verify on the Hino DCS Warranty System that the vehicle still needs to have this work performed.

### **Description:**

This bulletin includes the instructions for replacing the center exhaust hanger clamp and applying the correct torque.

### **Condition:**

The exhaust center hanger bracket mounting bolts may not have been properly tightened during the assembly process. If the bolts were to loosen it could cause a loss of support to the exhaust system.

### **Subject Vehicles:**

All Hino conventional trucks assembled at the Williamstown, WV assembly plant built between April 6, 2009 and June 30, 2009.

### **Before You Begin:**

Read and understand all instructions and procedures before you begin. Read and observe all caution and warning safety alerts that precede these instructions while following these procedures. The alerts help to avoid serious personal injury, damage to components, or both.

## !!! WARNING !!!

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **WARNINGS** set forth below. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a flat and level surface.
- Shift transmission to **NEUTRAL**.
- Apply the parking brake. Confirm parking brake activation.
- Confirm the engine is stopped, the starter switch is in the off (**LOCK**) position, and the key is removed.
- Place wheel chocks in front of and behind all wheels.
- Use care when working around surfaces which may be hot.
- Wear safety glasses to prevent eye injuries.

### Once Recall Is Completed

Complete a recall sticker and affix to the left door jam above the V.I.N. decal.



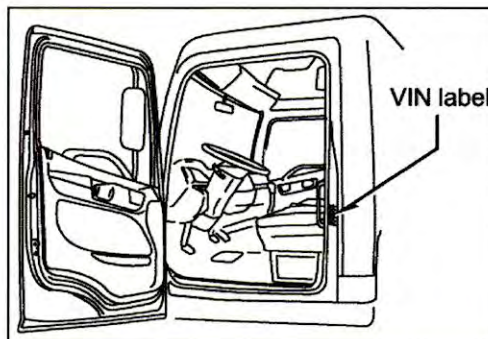
**HINO**   
A Toyota Group Company

Campaign No.: \_\_\_\_\_

Dealer code: \_\_\_\_\_

Repair date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
(MM / DD / YY)

**DO NOT REMOVE**



### Required Parts:

| Part Number | Description         | Qty. |
|-------------|---------------------|------|
| S175681830  | CLAMP, EXHAUST PIPE | 2    |
| SH13201035  | UPPER BOLT          | 1    |
| SL18511010  | NUT                 | 1    |

### Claim Application:

CAMPAIGN NUMBER: M0170  
 TIME ALLOWANCE: 0.4 Hours  
 WARRANTY CODE: 1141937  
 OPERATION CODE: 11450AOT  
 ORIGINAL PART NUMBER: 9999999999



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**Procedure:**

1. Park the vehicle on a level surface.
2. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brakes.



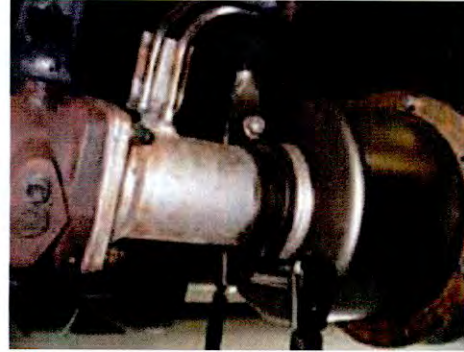
4. Chock all wheels.



## Safety Recall

5. Remove the lower bolt and nut from the center exhaust clamp.

Save the lower bolt and nut for reuse later.



6. Remove the upper bolt, nut, and both clamps.

Discard the upper bolt, nut, and both clamps.



7. Install, *hand tight*, the new upper bolt, new nut, and new clamps.



8. Install, *hand tight*, the lower bolt and lower nut.





## Safety Recall

9. Torque the upper bolt to 38 ft. lbs. (51 Nm)

**NOTE:**

The top bolt must be torqued before the lower bolt is torqued.



10. Torque the lower bolt to 22 ft. lbs. (30 Nm)

**NOTE:**

The top bolt must be torqued before the lower bolt is torqued.



**Subject:** VERTICAL EXHAUST BOLT TORQUE

**Date:** 10/22/2010

**Bulletin #:** R0038

**Campaign #:** M0180

**Affected Models:** Certain 2009 and 2010 model year Hino conventional trucks assembled at the Williamstown, WV assembly plant between July 16, 2008 and June 11, 2009.

**Important: Verify on the Hino DCS Warranty System that the vehicle still needs to have this work performed.**

**Description:**

This bulletin includes the instructions for replacing the vertical stack tail support arm bolts and applying the correct torque to the flex pipe clamps.

**Condition:**

The vertical exhaust support to side-rail attachment bolts and the flex pipe clamp bolts may not have been properly tightened during the manufacturing process. If the bolts were not properly tightened, the bolts and the vertical exhaust support may have been damaged or could become loose. This could cause the bolts to fail and thus the exhaust system would not be supported as designed. This condition would place additional stress on the other exhaust devices and could lead to additional failures. If this condition were undetected, it ultimately could result in a portion of the exhaust system separating from the vehicle, thus falling onto the surface of the roadway. If this fallen portion of the exhaust system were struck by a vehicle, it could ultimately result in an accident.

**Subject Vehicles:**

All Hino conventional trucks assembled at the Williamstown, WV assembly plant built between April 6, 2009 and June 30, 2009.

**Before You Begin:**

Read and understand all instructions and procedures before you begin. Read and observe all caution and warning safety alerts that precede these instructions while following these procedures. The alerts help to avoid serious personal injury, damage to components, or both.

Vendor Ref: QA100323-M4



## Safety Recall

### !!! WARNING !!!

- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **WARNINGS** set forth below. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a flat and level surface.
- Shift transmission to **NEUTRAL**.
- Apply the parking brake. Confirm parking brake activation.
- Confirm the engine is stopped, the starter switch is in the off (**LOCK**) position, and the key is removed.
- Place wheel chocks in front of and behind all wheels.
- Use care when working around surfaces which may be hot.
- Wear safety glasses to prevent eye injuries.

### Once Recall Is Completed

Complete a recall sticker and affix to the left door jam above the V.I.N. label.



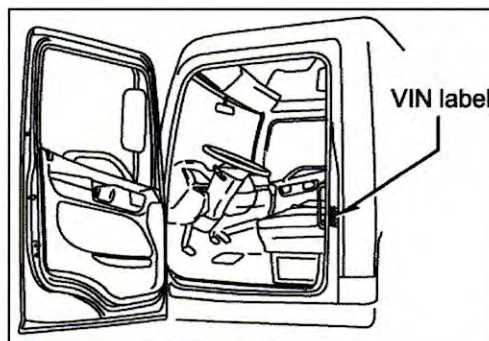
**HINO**   
A Toyota Group Company

Campaign No.: \_\_\_\_\_

Dealer code: \_\_\_\_\_

Repair date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
(MM / DD / YY)

**DO NOT REMOVE**



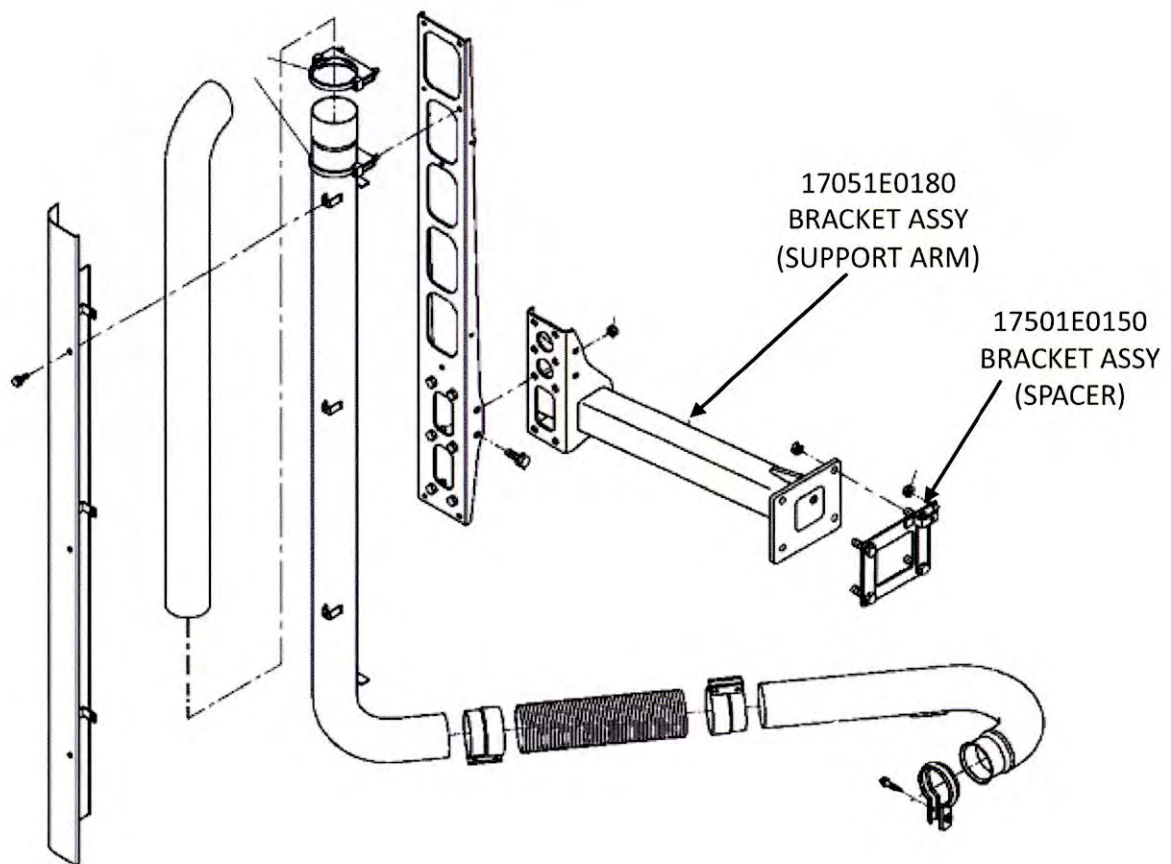
### Required Parts:

| Part Number | Description                | Qty. |
|-------------|----------------------------|------|
| 17051E0150  | BRACKET ASSY (SPACER)      | 1    |
| SZ17816007  | NUT                        | 4    |
| 17051E0180  | BRACKET ASSY (SUPPORT ARM) | 1    |
| S1788E0040  | CLAMP                      | 3    |

### Claim Application:

CAMPAIGN NUMBER: M0180  
 TIME ALLOWANCE: 1.1 Hours  
 WARRANTY CODE: 1141937  
 OPERATION CODE: 11450AOT  
 ORIGINAL PART NUMBER: 9999999999

## Work Area Overview





## Safety Recall

### Procedure:

1. Park the vehicle on a level surface.
2. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brakes.

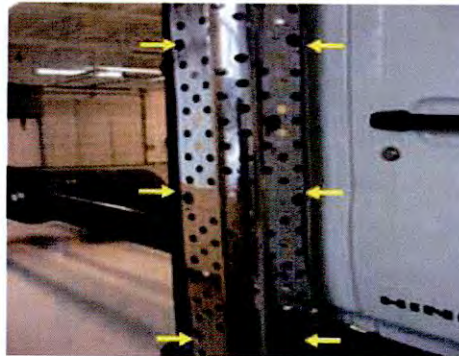


4. Chock all wheels.

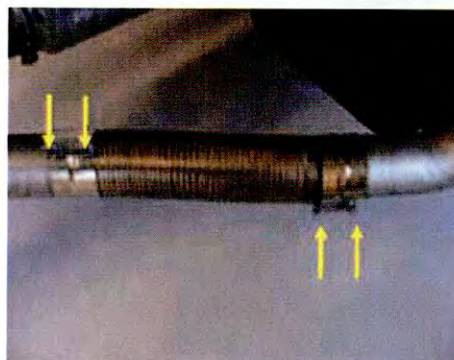


## Safety Recall

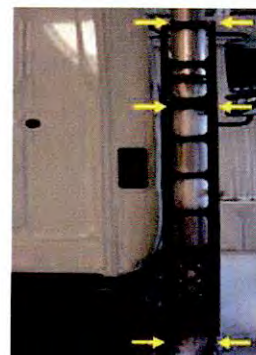
5. Remove the six bolts and the exhaust heat shield.



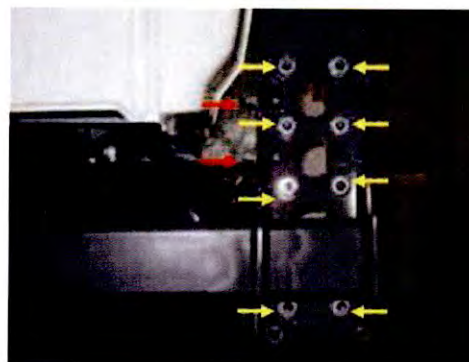
6. Loosen both flex pipe clamps and disconnect from the vertical stack pipe.



7. Remove the six nuts from the three stack pipe clamps. Remove the vertical stack.



8. Remove the eight nuts and two bolts at the vertical stack bracket. Remove the vertical stack bracket.

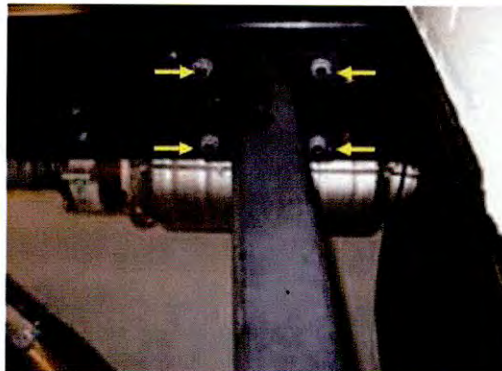




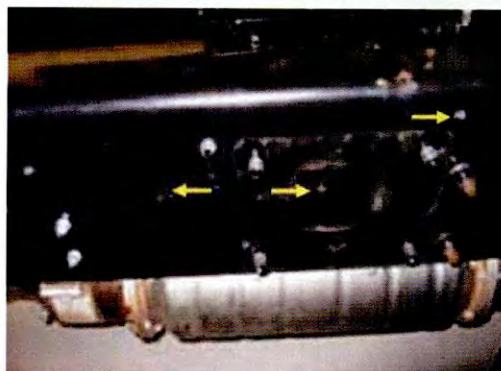
## Safety Recall

9. Remove the four nuts from the lower support bracket. Remove the lower support arm.

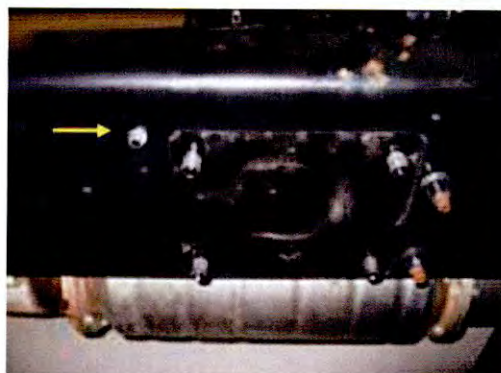
Discard the nuts.



10. Release the three wire harness retainers attaching the harness to the frame rail.



11. Remove the locating nut from the bracket stud.



12. Release the wiring harness connector retainer from the bracket and remove the bracket.

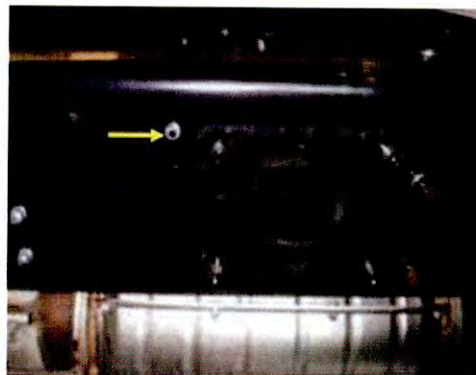
Discard the bracket.



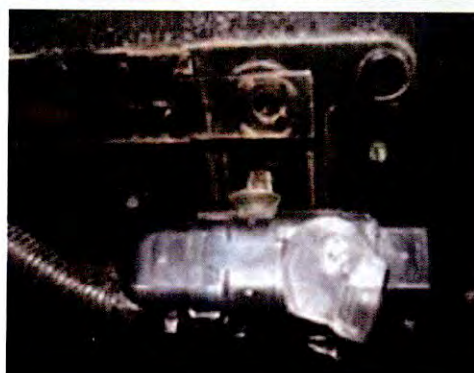
## Safety Recall

13. Install the new bracket (spacer) using the original locating nut.

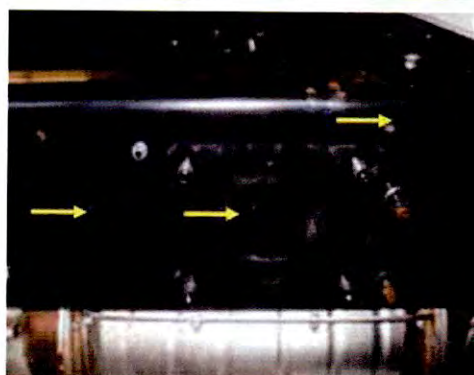
Torque the nut to 16 ft. lbs. (22 Nm)



14. Reinstall the wiring harness connector retainer to the bracket.

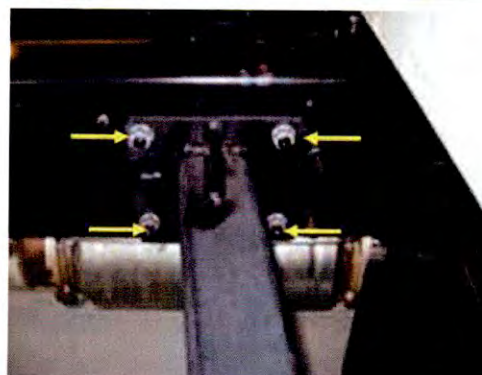


15. Reinstall the wiring harness retainers through the frame rail.



16. Install the new bracket (support arm) with the new nuts.

Torque the nuts to 85 ft. lbs. (115 Nm)

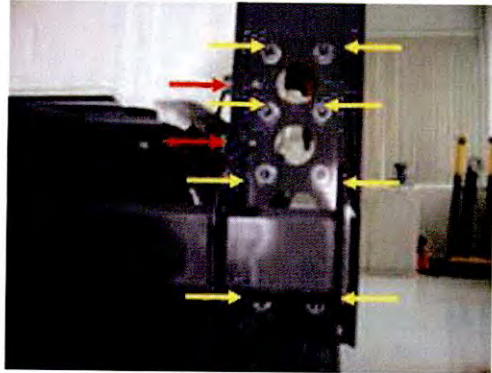




## Safety Recall

17. Reinstall the vertical stack bracket reusing the eight nuts and two bolts.

Torque the nuts to 106 ft. lbs. (144 Nm)



18. Install, *hand tight*, the vertical stack with three new clamps with one of the supplied nuts.

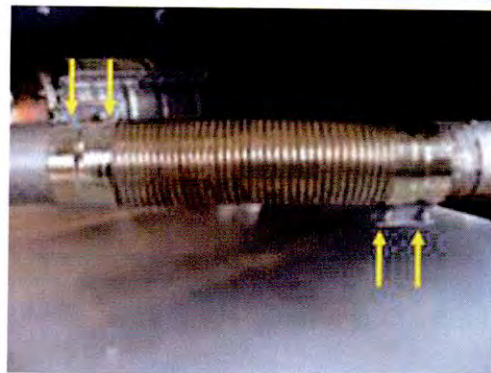
**NOTE:**

Ensure the locating tabs on the clamps align with the holes in the vertical stack bracket.

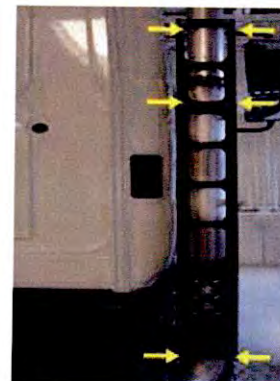


19. Reinstall the stack elbow to the flex pipe.

Torque the flex pipe clamps to 52 ft. lbs. (70 Nm)



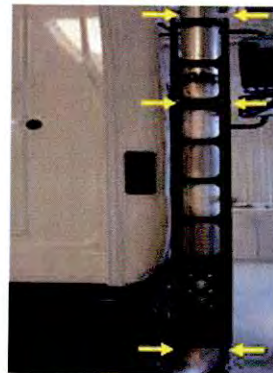
20. Torque the six stack pipe u-bolt inner nuts to 29 ft. lbs. (40 Nm)



## Safety Recall

- 21.** Install six jamb nuts on the three stack pipe u-bolt clamps.

Torque the nuts to 29 ft. lbs. (40 Nm)



- 22.** Reinstall the heat shield and the six bolts.

Torque the heat shield bolts to 16 ft. lbs. (22 Nm)

